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ATGGAATCACAGACTCTGGTCTTCATATCCATACTGCTCTGGTTATATGGTGCTGATGGG
M E S Q T L V F I S I L L W L Y G A D G
AACATTGTTATGACCCAATCTCCCAAATCCATGTACGTGTCAATAGGAGAGAGGGTCACC
N I V M T Q S P K S M Y V S I G E R V T
TTGAGCTGCAAGGCCAGTGAAAATGTGGATACTTATGTATCCTGGTATCAACAGAAACCA
L S C K A S E N V D T Y V S W Y Q Q K P
GAGCAGTCTCCTAAACTGCTGATATATGGGGCATCCAACCGGTACACTGGGGTCCCCGAT
E Q S P K L L I Y G A S N R Y T G V P D
CGCTTCACGGGCAGTGGATCTGCAACAGATTTCACTCTGACCATCAGCAGTGTGCAGGCT
R F T G S G S A T D F T L T I S S V Q A
GAAGACCTTGCAGATTATCACTGTGGACAGAGTTACAACATCCATTACGTTTCGGCTCG
E D L A D Y H C G Q S Y N Y P F T F G S
GGGACAAAGTTGGAAATAAAG
G T K L E I K

FIG. 1A

ATGGGATGGAGCTGTATCATCCTCTTCTTGGTAGCAACAGCTACAGGTGTCCTCTCCCAG
M G W S C I I L F L V A T A T G V L S Q
GTCCAACCTGCAGCAGCCTGGGGCTGACCTTGTGATGCCTGGGGCTCCAGTGAAGCTGTCC
V Q L Q Q P G A D L V M P G A P V K L S
TGCTTGGCTTCTGGCTACATCTTCACCAGCTCCTGGATAAACTGGGTGAAGCAGAGGCCT
C L A S G Y I F T S S W I N W V K Q R P
GGACGAGGCCTCGAGTGGATTGGAAGGATTGATCCTTCCGATGGTGAAGTTCACTACAAT
G R G L E W I G R I D P S D G E V H Y N
CAAGATTTCAAGGACAAGGCCACACTGACTGTAGACAAATCCTCCAGCACAGCCTACATC
Q D F K D K A T L T V D K S S S T A Y I
CAACTCAACAGCCTGACATCTGAGGACTCTGCGGTCTATTACTGTGCTAGAGGATTTCTG
Q L N S L T S E D S A V Y Y C A R G F L
CCCTGGTTTGCTGACTGGGGCCAAGGGACTCTGGTCACTGTCTCTGCA
P W F A D W G Q G T L V T V S A

FIG. 1B

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ATGGAGACCGATACCTCCTGCTATGGGTCTCCTGCTATGGGTCCCAGGATCAACCGGA
M E T D T L L L W V L L L W V P G S T G
GATATTGAGATGACCCAGTCTCCGTCGACCTCTCTGCTAGCGTCGGGGATAGGGTCACC
D I Q M T Q S P S T L S A S V G D R V T
ATAACCTGCAAGGCCAGTGAAAATGTGGATACTTATGTATCCTGGTATCAGCAGAAGCCA
I T C K A S E N V D T Y V S W Y Q Q K P
GGCAAAGCTCCCAAGCTTCTAATTTATGGGGCATCCAACCGGTACACTGGGGTACCTTCA
G K A P K L L I Y G A S N R Y T G V P S
CGCTTCAGTGGCAGTGGATCTGGGACCGATTTCACCTCACAATCAGCTCTCTGCAGCCA
R F S G S G S G T D F T L T I S S L Q P
GATGATTTGCGCACTTATTACTGCGGACAGAGTTACAATATCCATTACGTTTCGGTCAG
D D F A T Y Y C G Q S Y N Y P F T F G Q
GGGACCAAGGTGGAGGTCAAACGT
G T K V E V K R

FIG. 2A

ATGGGATGGAGCTGGATCTTTCTCTTCCTCCTGTCAGGTACCGCGGGCGTGCCTCTCAG
M G W S W I F L F L L S G T A G V H S Q
GTCCAGCTTGTCAGTCTGGGGCTGAAGTCAAGAACTGGGAGCTCCGTGAAGGTCTCC
V Q L V Q S G A E L K K P G S S V K V S
TGCAAAGCTTCTGGCTACATCTTTACTAGCTCCTGGATAAACTGGGTAAAGCAGGCCCT
C K A S G Y I F T S S W I N W V K Q A P
GGACAGGTCTCGAGTGGATTGGAAGGATTGATCCTTCCGATGGTGAAGTTCACTACAAT
G Q G L E W I G R I D P S D G E V H Y N
CAAGATTTCAAGGACAAGGCTACACTTACAGTCGACAAATCCACCAATACAGCCTACATG
Q D F K D K A T L T V D K S T N T A Y M
GAACTGAGCAGCCTGAGATCAGAGGACACTGCAGTCTATTACTGTGCAAGAGGATTTCTG
E L S S L R S E D T A V Y Y C A R G F L
CCCTGGTTTGCTGACTGGGGCCAAGGAACCTGGTCACAGTCTCCTCAG
P W F A D W G Q G T L V T V S S

FIG. 2B

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1      31      36      49
huXAF QVQLVQSGAELKKPGSSVKVSKKASGYIFT sswin WVRQAPGQGLEWIG
huZAF QVQLVQSGAELKKPGSSVKVSKKASGYIFT sswin WVKQAPGQGLEWIG
DIFF  -----*-----
haf25 QVQLVQSGAEVKKPGSSVKVSKKASGYIFT sswin WVRQAPGQGLEWIG
DIFF  -----*-----

50      67      99      107
huXAF ridpsdgevhyndqdfkd KATLTVDKSTNTAYMELSSLRSEDTAVYCAR gflpwfad WQGGTLVT
huZAF ridpsdgevhyndqdfkd KATLTVDKSTNTAYMELSSLRSEDTAVYCAR gflpwfad WQGGTLVT
DIFF  -----*-----
haf25 ridpsdgevhyndqdfkd KATLTVDKSTNTAYMELSSLRSEDTAVYCAR gflpwfad WQGGTLVT
DIFF  XXXXXXXXXXXXXXXX **-*-*----- XXXXXXXX -----
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FIG. 3

DEPT 42525560

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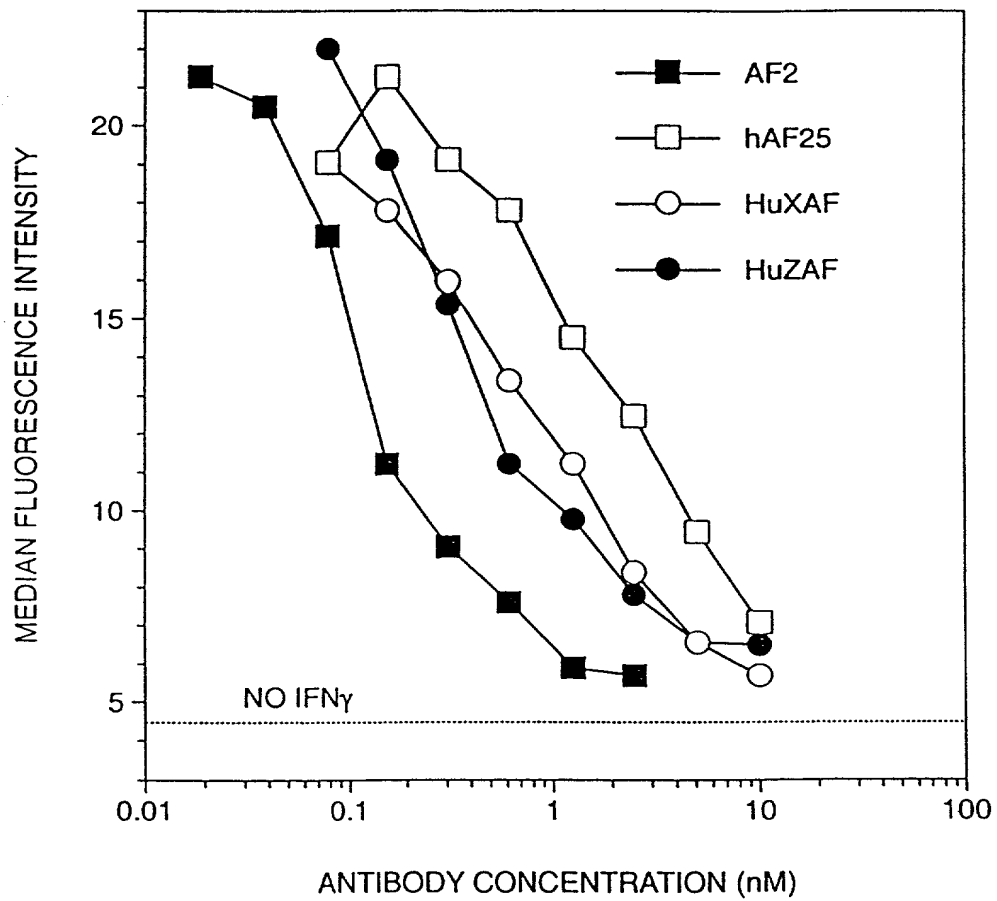


FIG. 4